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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OXAZOLIDINONE DERIVATIVES AS ANTIBACTERIAL AGENTS

(57) Abstract: A compound of the formula (I), or a pharmaceutically-acceptable salt, or in-vivo hydrolysable ester thereof: formula (I) wherein C is selected from D and E, formula (D), formula (E) R_2a , R_6a , and R_3a are independently selected from for example H, CF₃, Me and Et; R_2b and R_6b are independently selected from for example H, F, CF₃, Me and Et; R_1b is for example acetamido; R_4 is for example an optionally substituted 5- or 6- membered heterocyclic ring system. Methods for making compounds of the formula (I), compositions containing them and their use as antibacterial agents are also described.





A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D413/14 C07D413/10 A61K31/44 //(C07D413/14,263:00, 257:00,213:00)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, PAJ, WPI Data, CHEM ABS Data

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Y	WO 00 29396 A (RADDATZ SIEGFRI STEPHAN (DE); BAYER AG (DE); H 25 May 2000 (2000-05-25) the whole document		1-11, 13-16
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	ther documents are listed in the continuation of box C.	Patent family members are li	isted in annex.
* Special c	ategories of cited documents: nent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	*T* later document published after the or priority date and not in conflicing clied to understand the principle invention *X* document of particular relevance.	e International filing date It with the application but or theory underlying the It the claimed invention
* Special c *A* docum consi *E* earlier filing *L* docum which citati *O* docum other	ategories of cited documents: nent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or it is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means	"T" later document published after the or priority date and not in conflicted to understand the principle invention	e International filing date t with the application but or theory underlying the ; the claimed invention annot be considered to the document is taken alone ; the claimed invention an inventive step when the or more other such docu-
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* Special c *A* documents *E* earlier filing *L* documents *O* documents *P* document	ategories of cited documents: ment defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or his cited to establish the publication date of another on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means ment published prior to the international filing date but than the priority date claimed	"T" later document published after the or priority date and not in conflicted to understand the principle invention "X" document of particular relevance cannot be considered novel or or involve an inventive step when the two document of particular relevance cannot be considered to involve document is combined with one ments, such combination being in the art. "&" document member of the same p	e International filing date it with the application but or theory underlying the ; the claimed invention annot be considered to the document is taken alone ; the claimed invention an inventive step when the or more other such docu- obvious to a person skilled patent family
* Special c *A* documents on six series artiser filing documents of the series of the	ategories of cited documents: ment defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or his cited to establish the publication date of another on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means ment published prior to the international filing date but than the priority date claimed	*T* later document published after the or priority date and not in conflicted to understand the principle invention *X* document of particular relevance cannot be considered novel or or involve an inventive step when the two document of particular relevance cannot be considered to involve document is combined with one ments, such combination being in the art. *&* document member of the same purpose the constant of the internation of the internation.	e International filing date it with the application but or theory underlying the ; the claimed invention annot be considered to the document is taken alone ; the claimed invention an inventive step when the or more other such docu- obvious to a person skilled patent family



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AH (KR); LEE KOUN HO (KR); LEE YOUN HA) 8 July 1999 (1999-07-08) the whole document Y WO 98 54161 A (HESTER JACKSON B JR; NIDY ELDON GEORGE (US); PERRICONE SALVATORE C) 3 December 1998 (1998-12-03) cited in the application the whole document Y WO 93 09103 A (UPJOHN CO) 13 May 1993 (1993-05-13) examples 1,8,11,18,21,24,27,30 Y EP 0 352 781 A (DU PONT) 31 January 1990 (1990-01-31) examples 38,105,107,135 Y US 5 565 571 A (BARBACHYN MICHAEL R ET AL) 15 October 1996 (1996-10-15)	Tiolovani to ciamingo.
ELDON GEORGE (US); PERRICONE SALVATORE C) 3 December 1998 (1998-12-03) cited in the application the whole document Y WO 93 09103 A (UPJOHN CO) 13 May 1993 (1993-05-13) examples 1,8,11,18,21,24,27,30 Y EP 0 352 781 A (DU PONT) 31 January 1990 (1990-01-31) examples 38,105,107,135 Y US 5 565 571 A (BARBACHYN MICHAEL R ET AL) 15 October 1996 (1996-10-15)	1-11, 13-16
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.			
A	PAE A N ET AL: "Synthesis and in vitro activity of new oxazolidinone antibacterial agents having substituted isoxazoles" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 9, no. 18, 20 September 1999 (1999-09-20), pages 2679-2684, XP004179951 ISSN: 0960-894X the whole document		1-11, 13-16			

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Expressions "in vivo hydrolysable ester", "prodrug" do not bring more specification to the claimed domain and appear, rather, to claim desirable properties or results to be obtained which are not achieved yet at the filing time. They encompass a great, non-limitative variety of compounds which differ from the claimed active compounds, either in the side chain(s) or in the core structure.

Present claims 1-11, 13 to 16 relate to an extremely large number of possible compounds and processes. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds and processes claimed (in fact, two examples). In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds including the definitions specified in claims 4 and 8, as they appear to be illustrated, and analogous thereof (it is noted the wording of claim 4 -contrarily to the one of claim 8- is not limiting as such since the given specifications for HET-3 do not exclude other definitions of R4 like does the specification of group C to be E which excludes group D).

Apparently the definition of R24 has been drafted to exclude the vakue CH3 without using the formulation of a proviso. This results in unclear redundances of the definition of R24.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 12 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

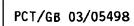


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